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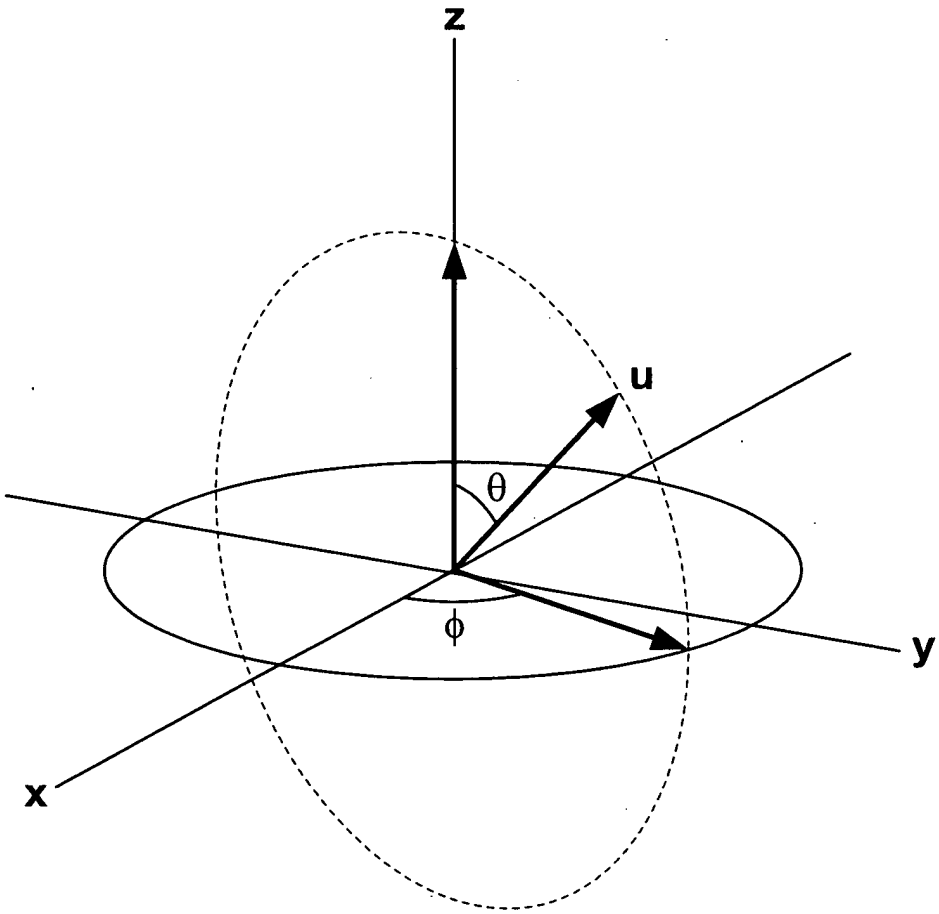

FIG. 1

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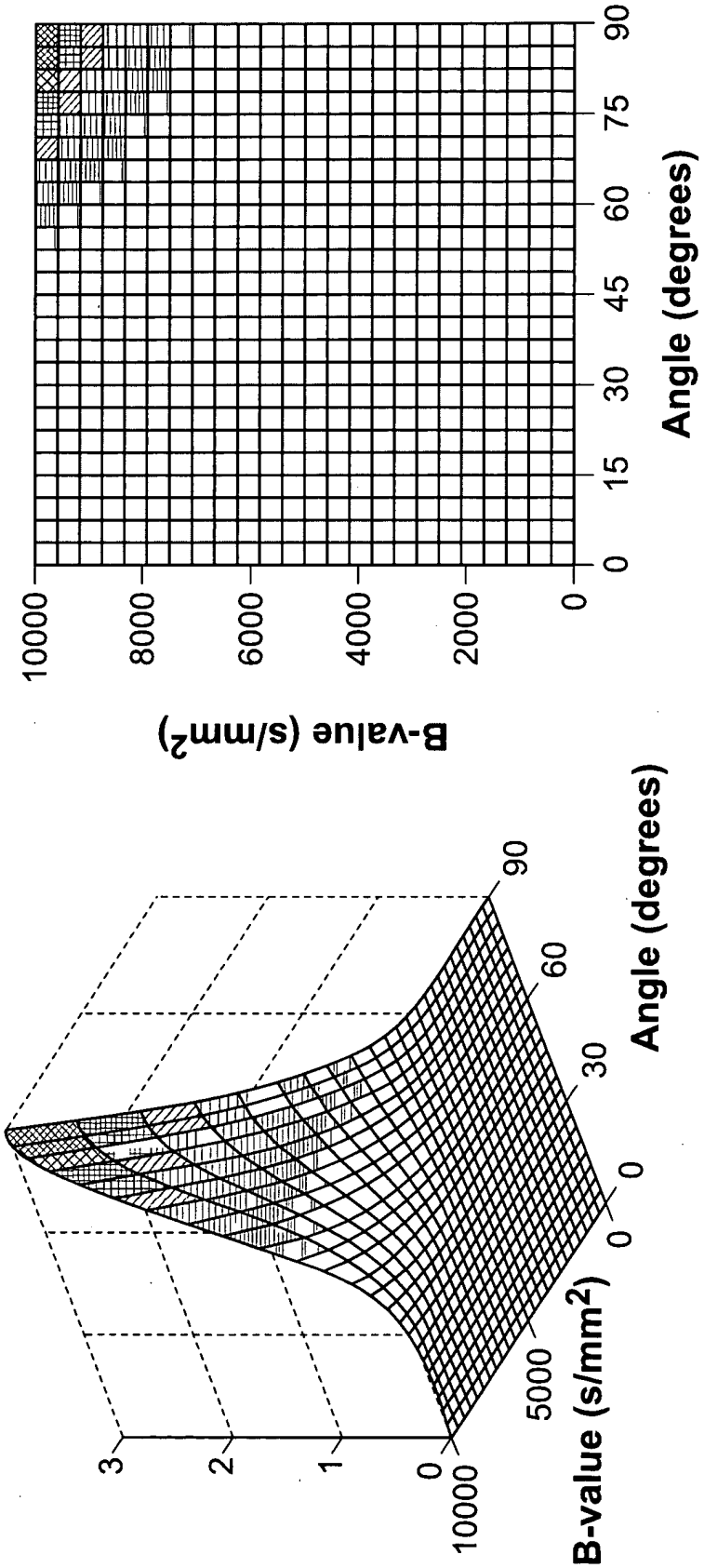

FIG. 2

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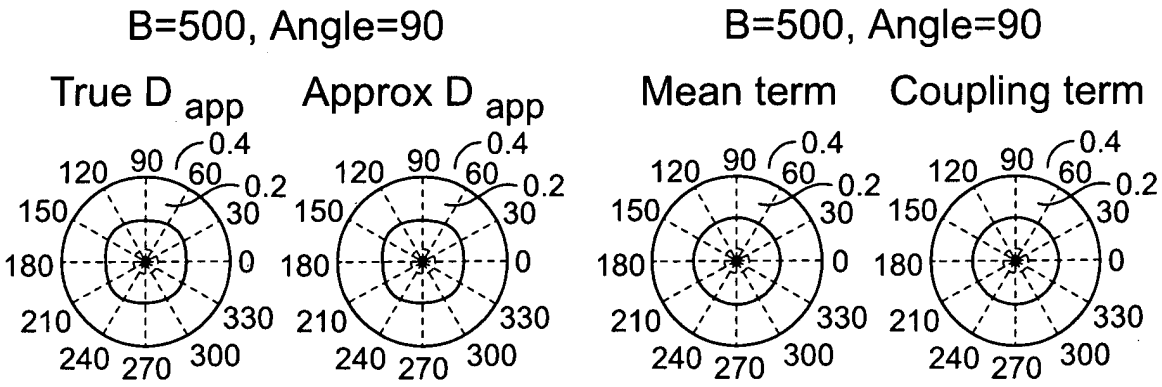

FIG. 3A

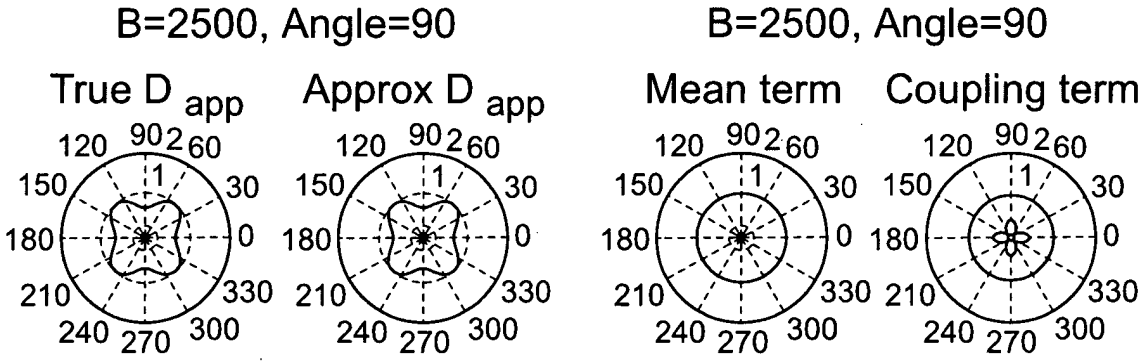

FIG. 3B

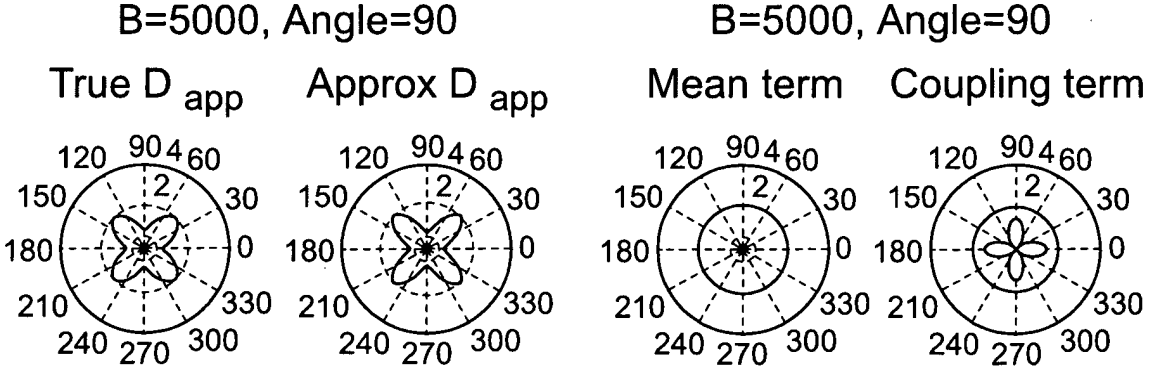

FIG. 3C

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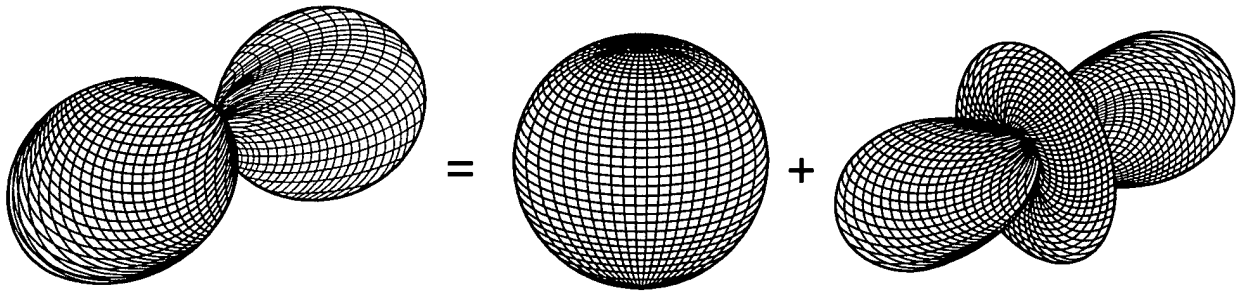

FIG. 4A

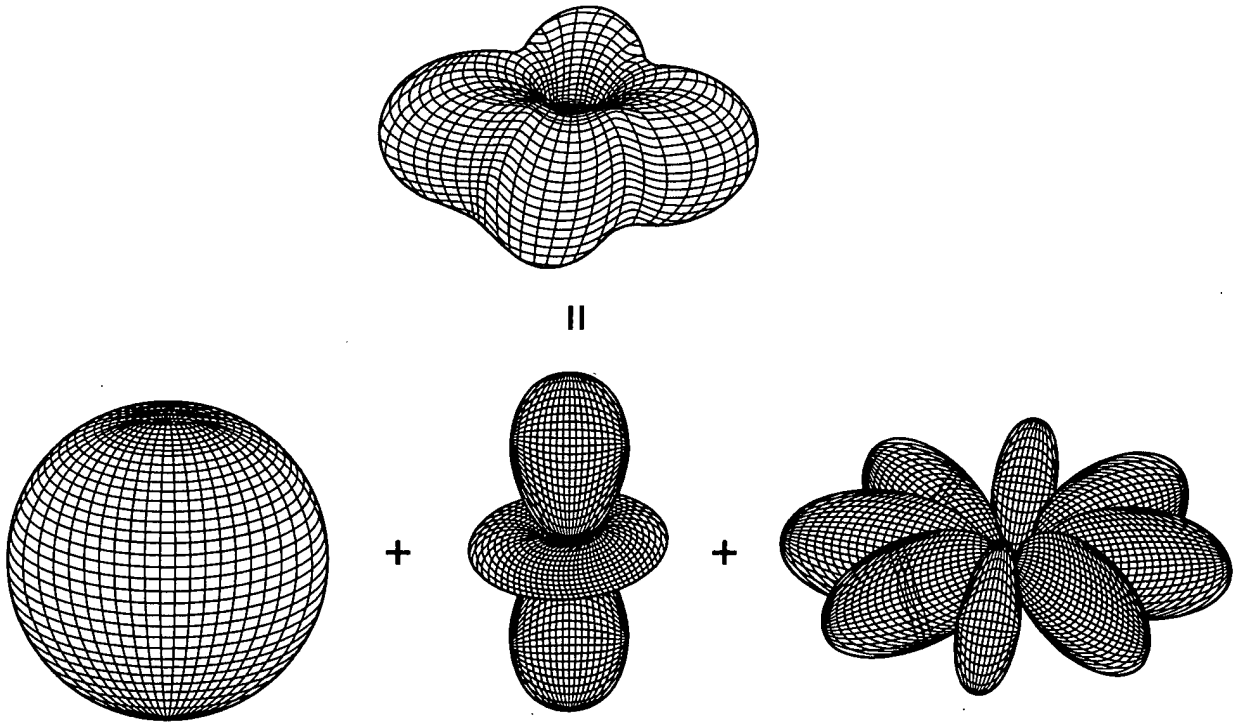

FIG. 4B

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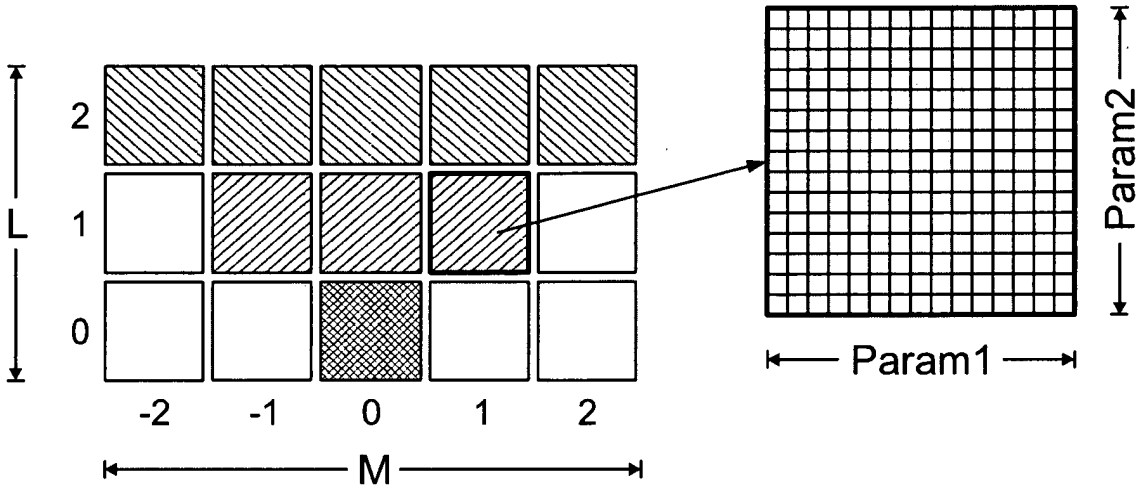

FIG. 5

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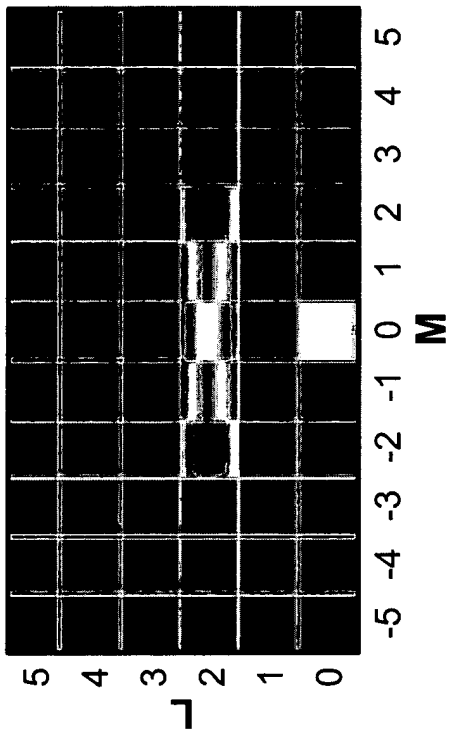


FIG. 6A

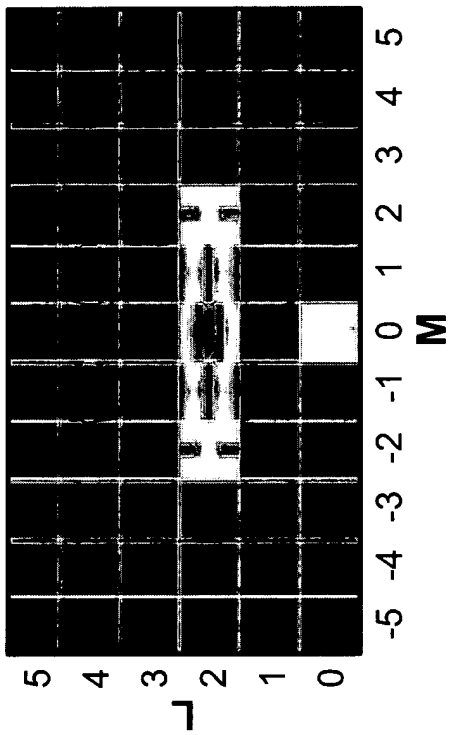
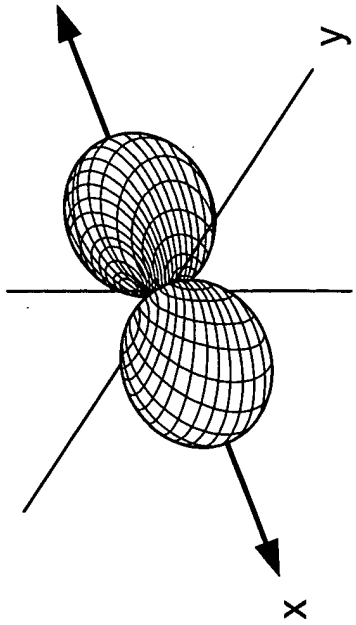
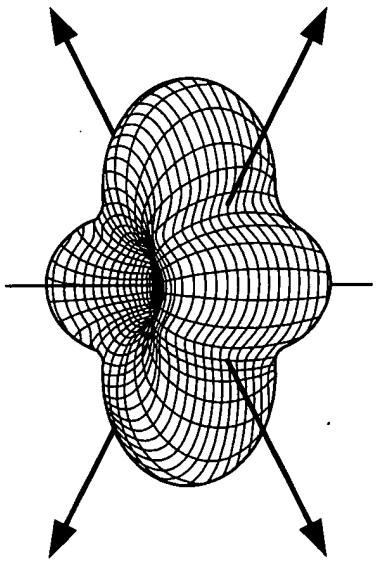


FIG. 6B





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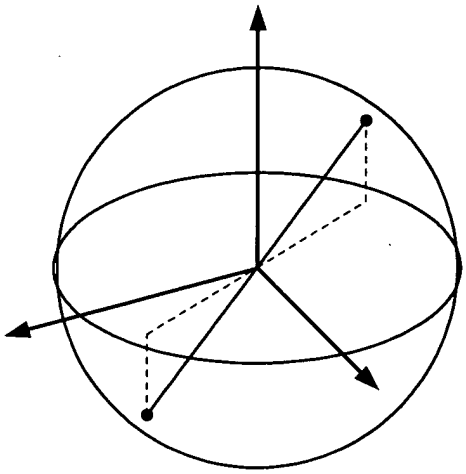

FIG. 7A

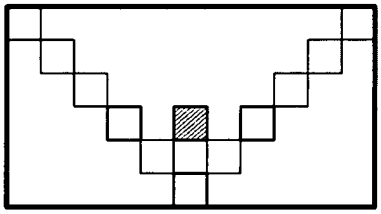

FIG. 7B

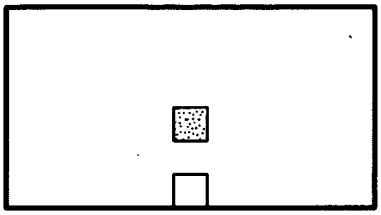

FIG. 7C

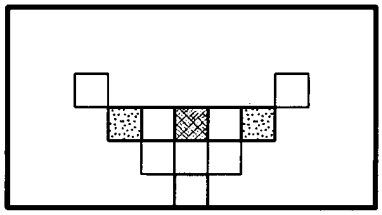

FIG. 7D

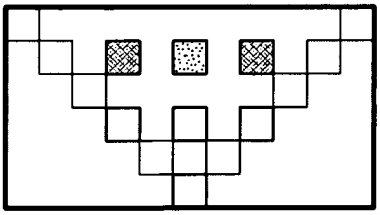

FIG. 7E

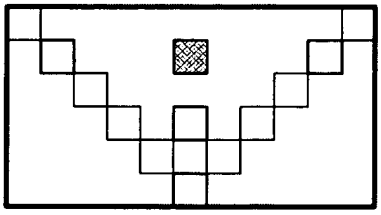

FIG. 7F

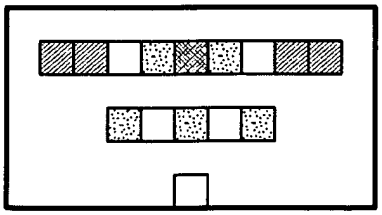

FIG. 7G

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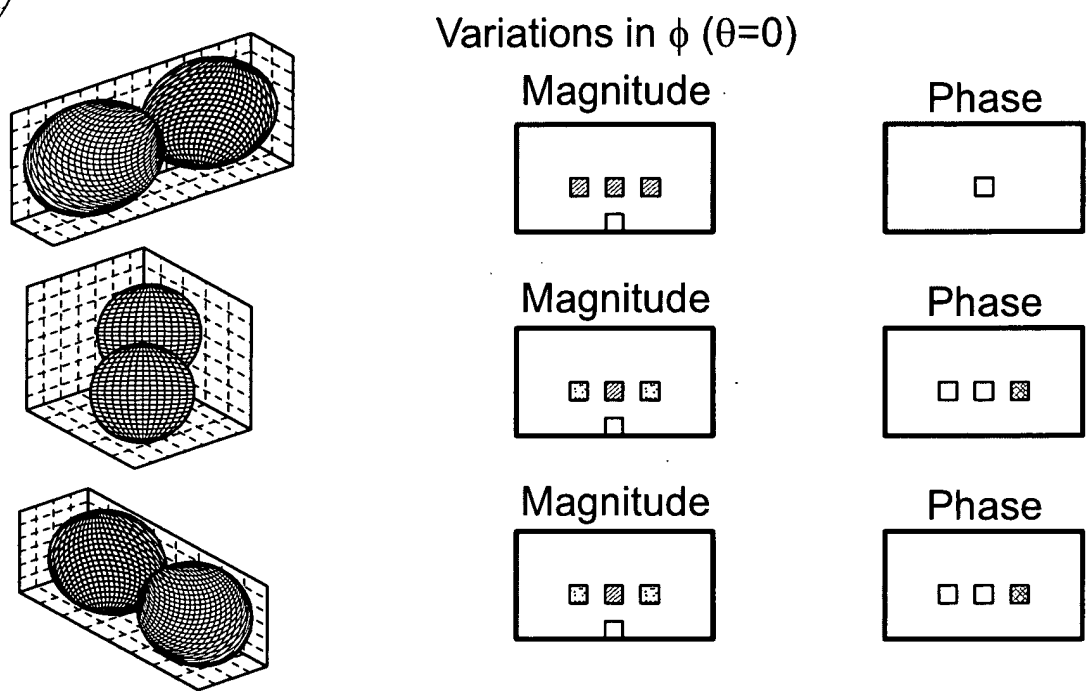

FIG. 8A

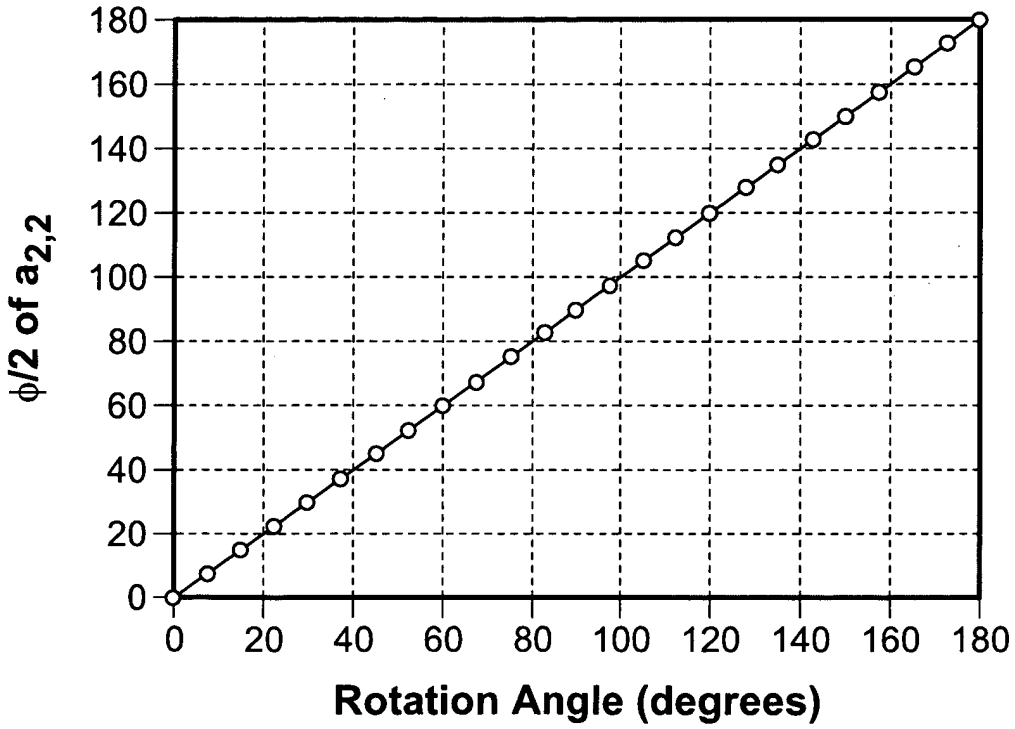

FIG. 8B

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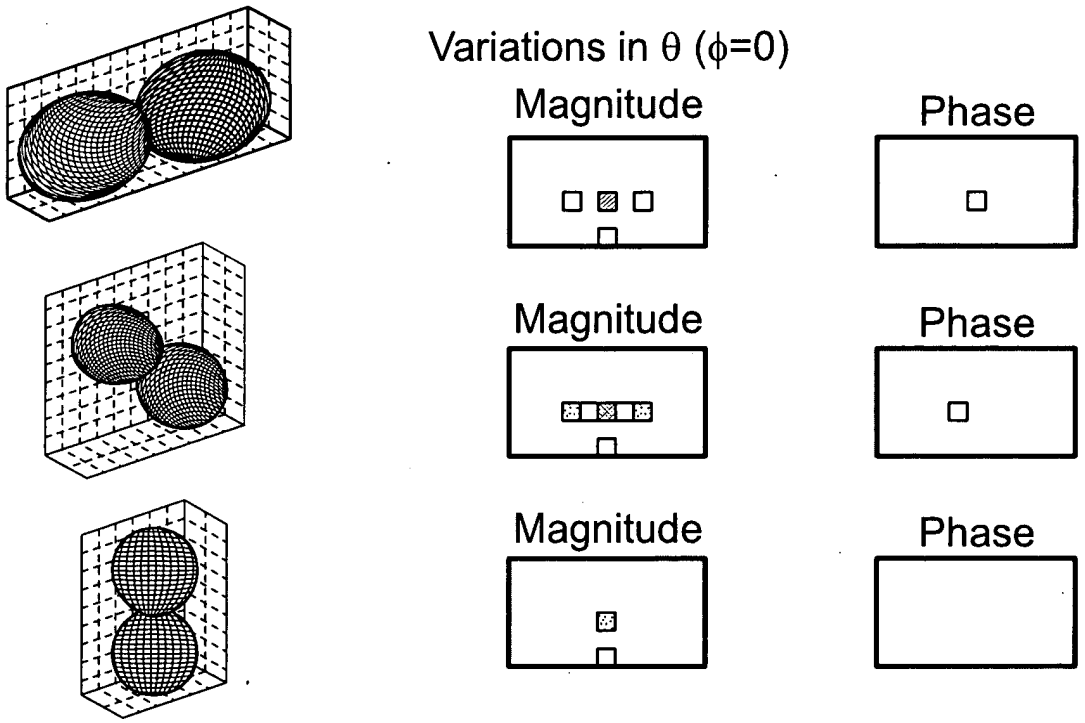

FIG. 8C

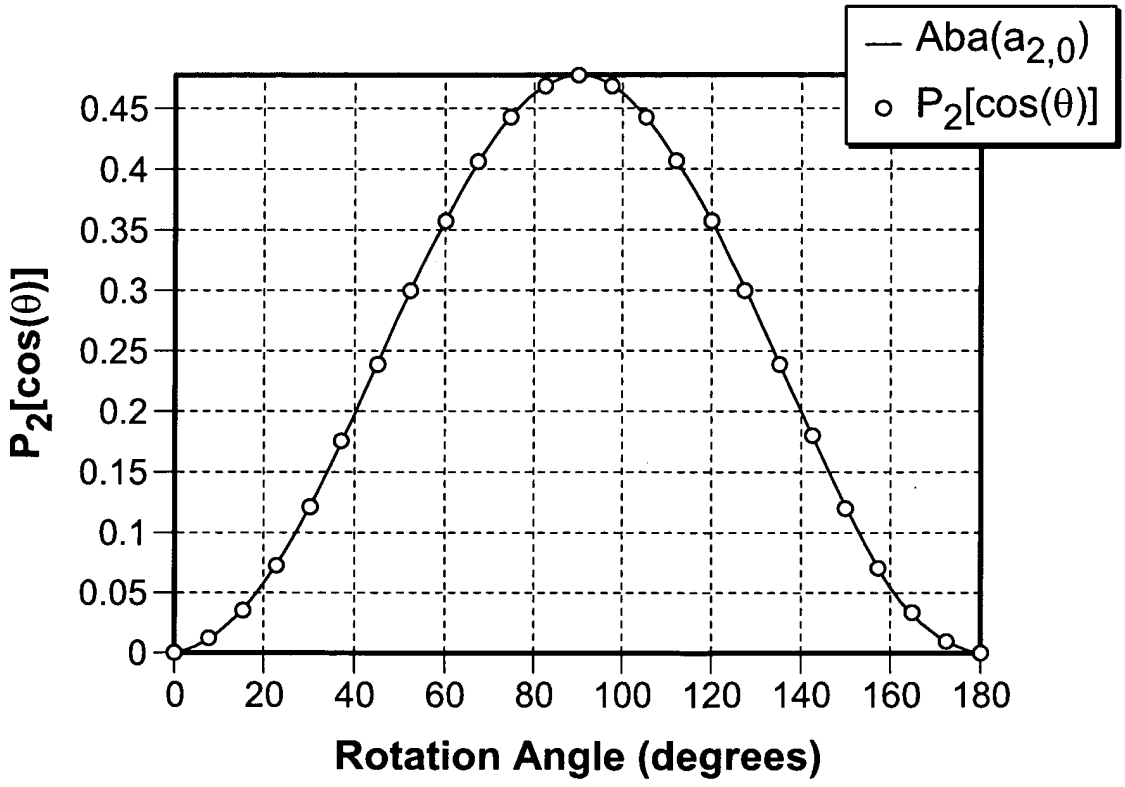

FIG. 8D

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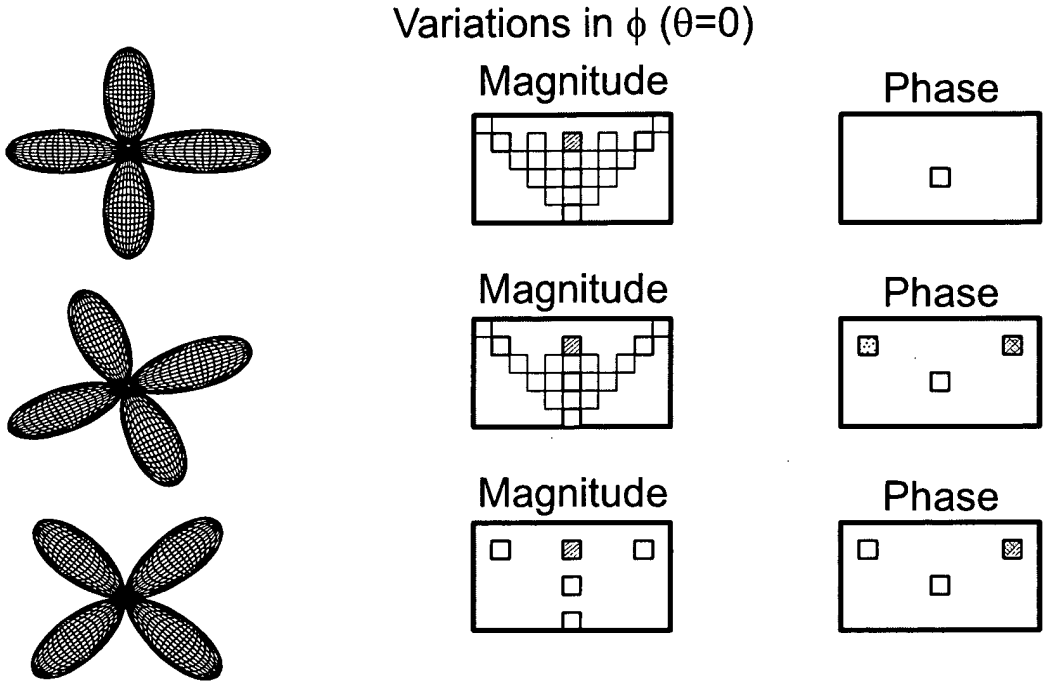

FIG. 9A

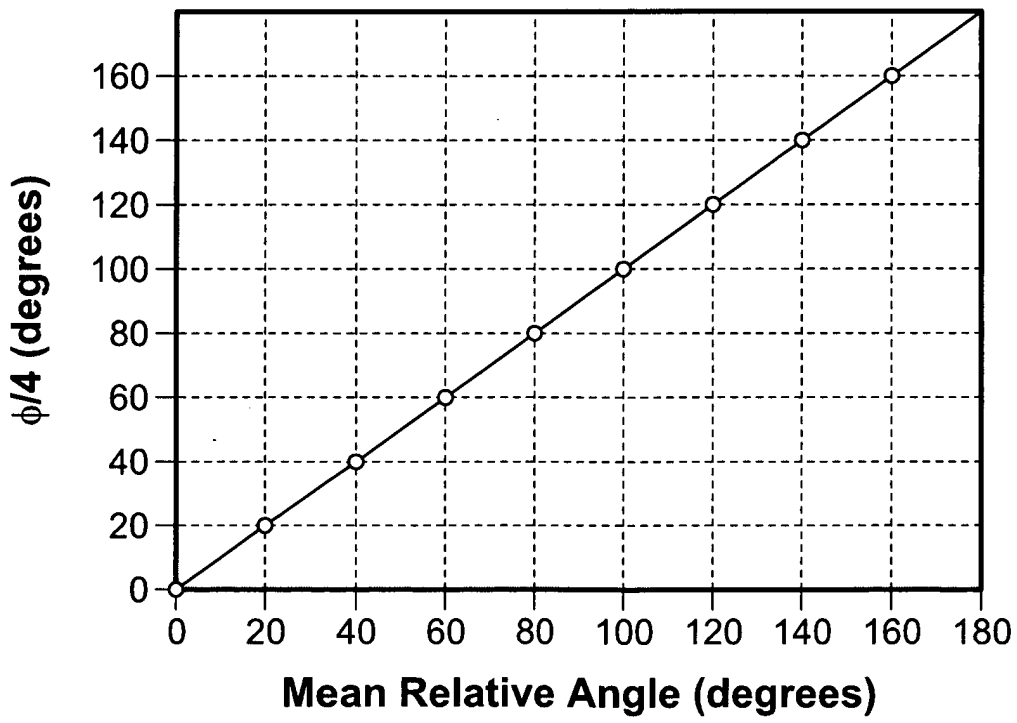

FIG. 9B

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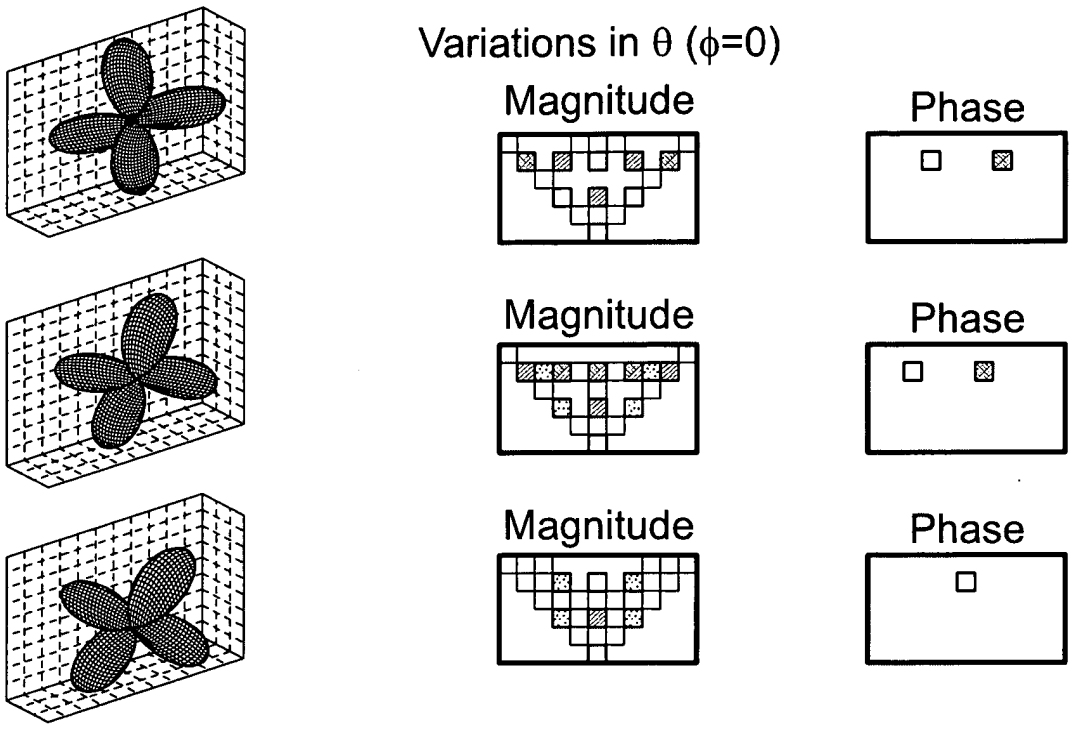

FIG. 9C

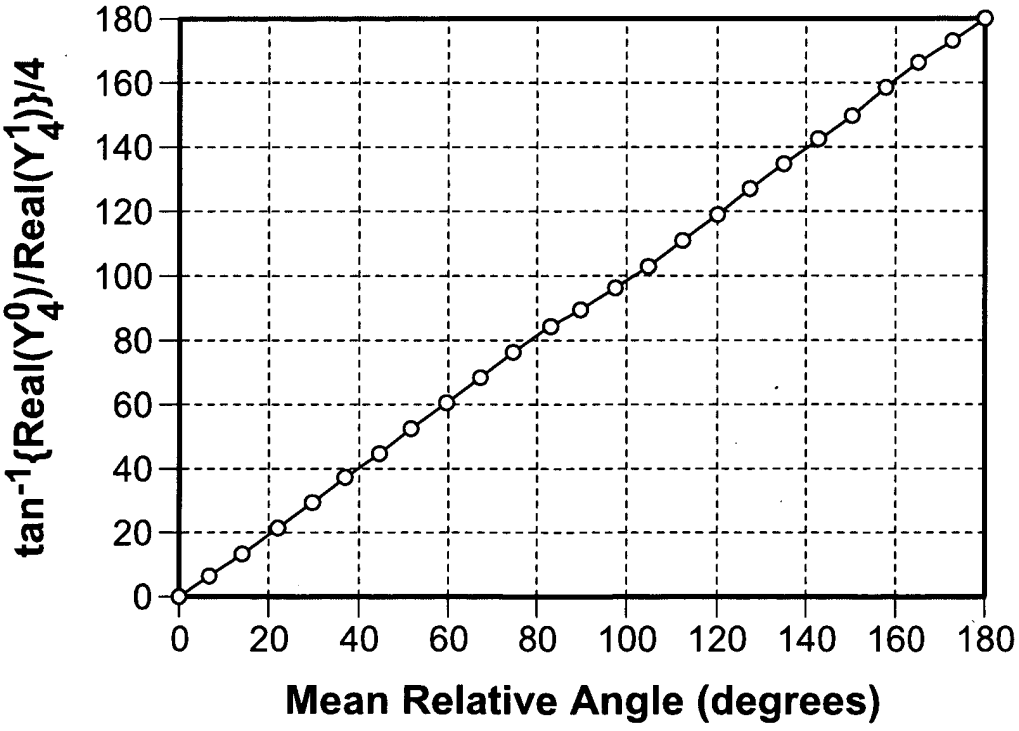

FIG. 9D

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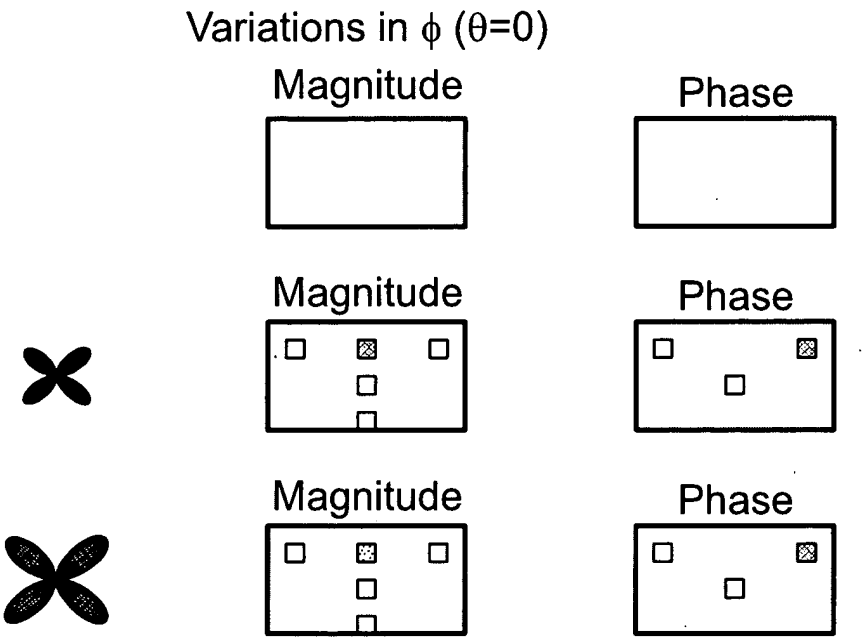

FIG. 10A

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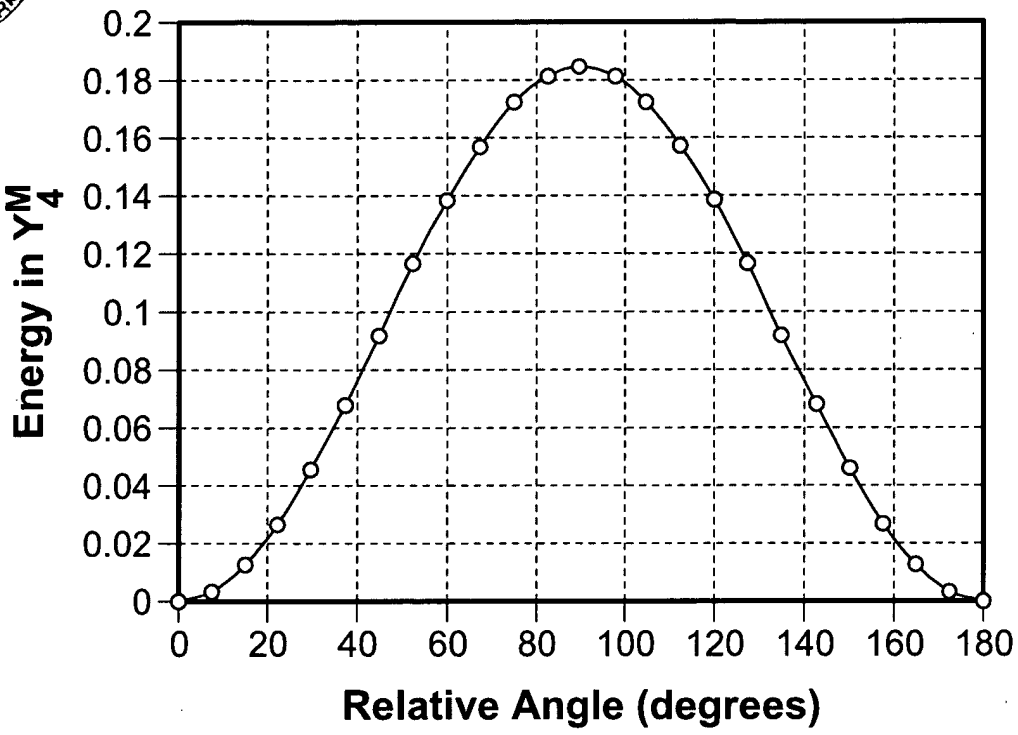

FIG. 10B

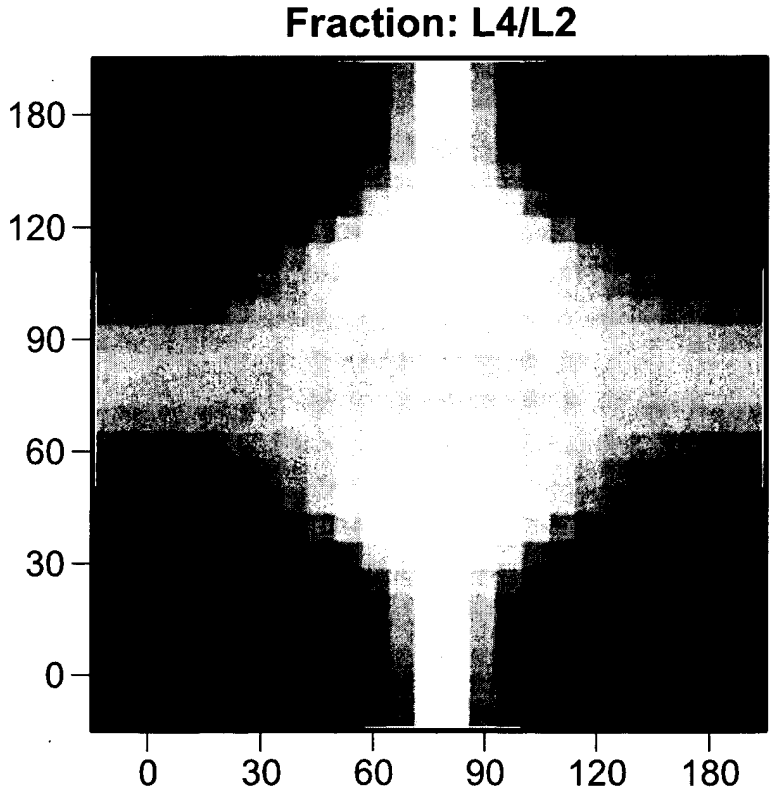

FIG. 10C

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JC105

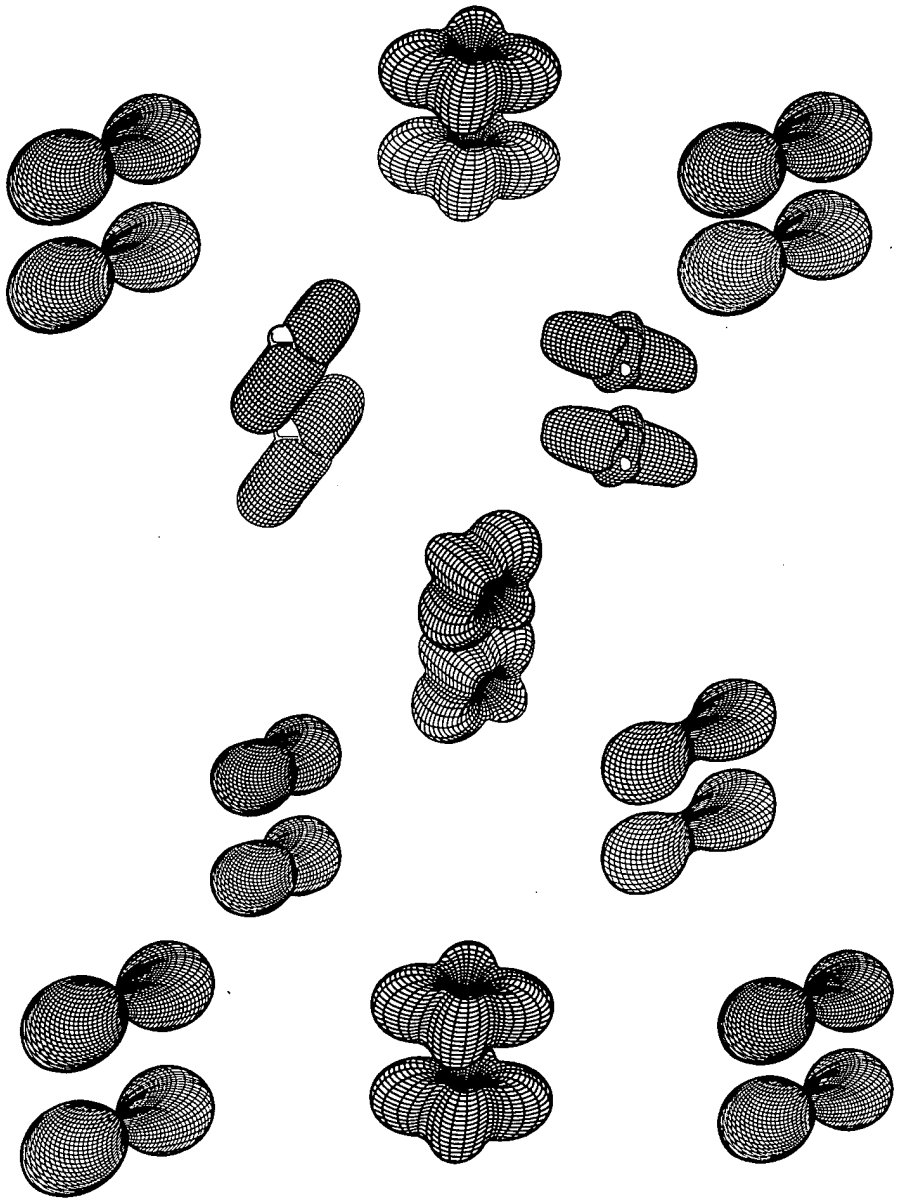

FIG. 10D

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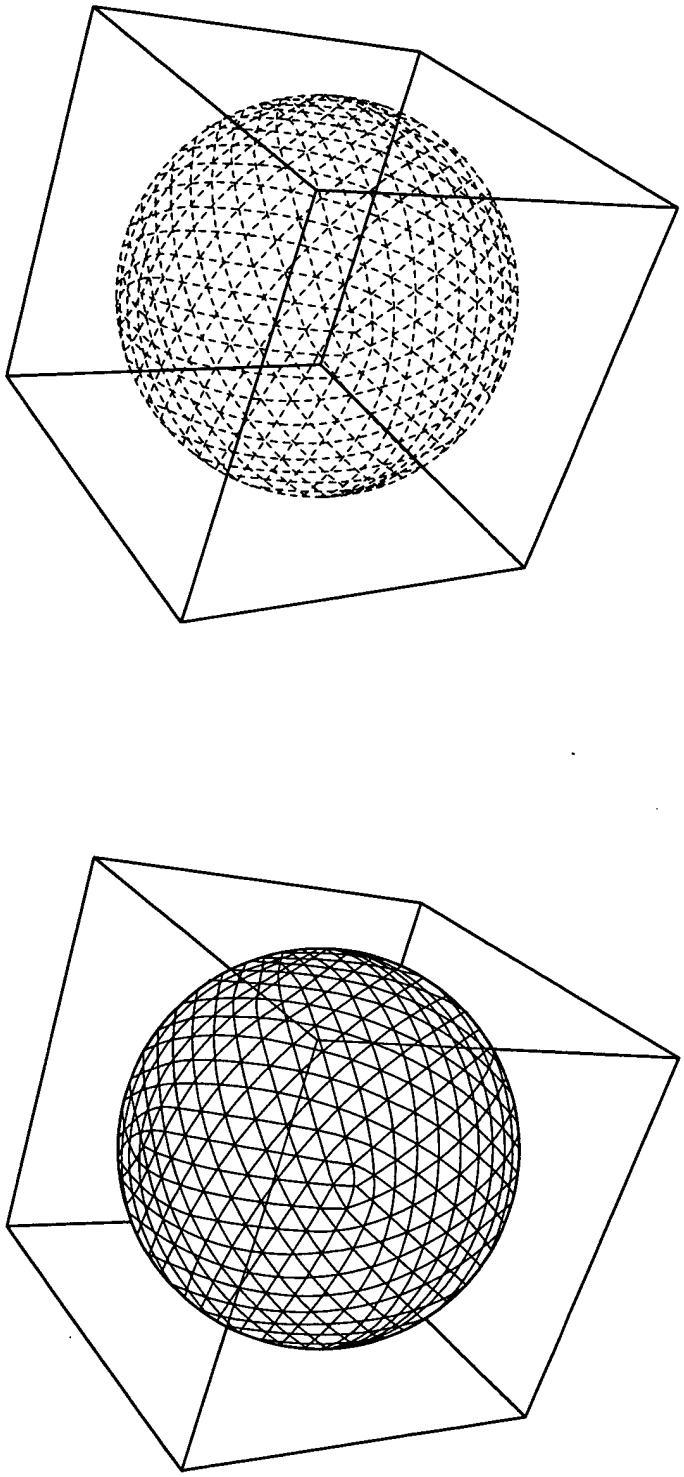

FIG. 11

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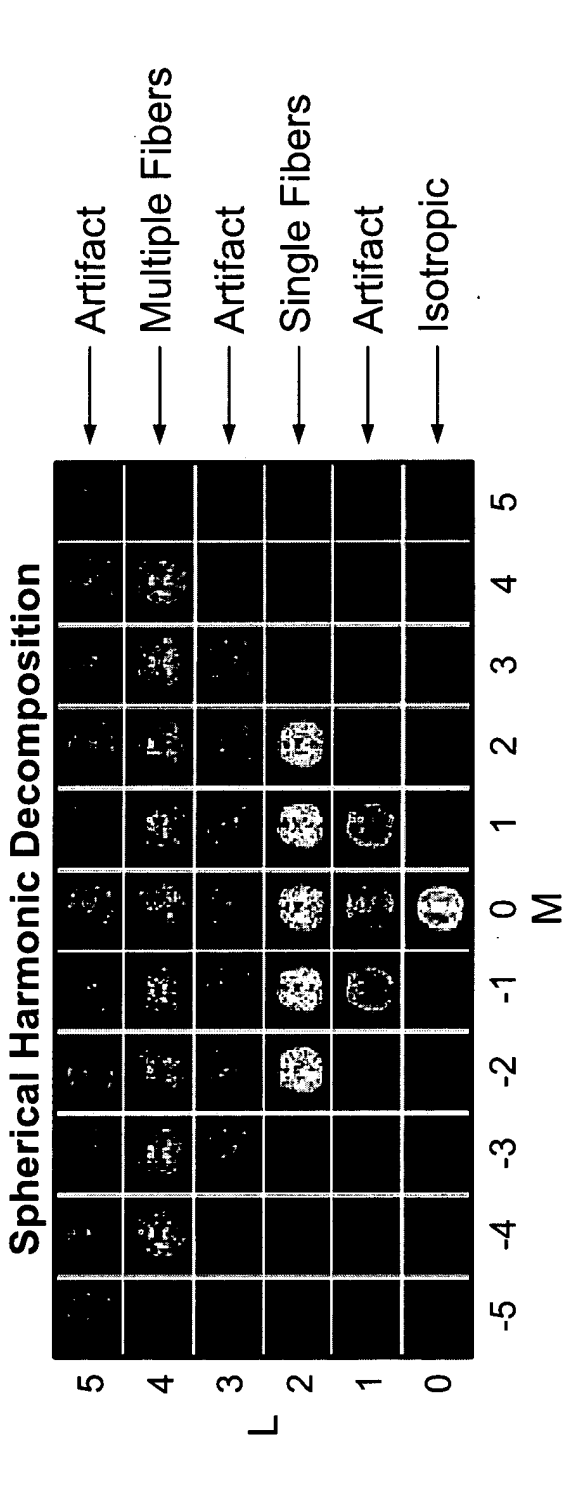

FIG. 12A

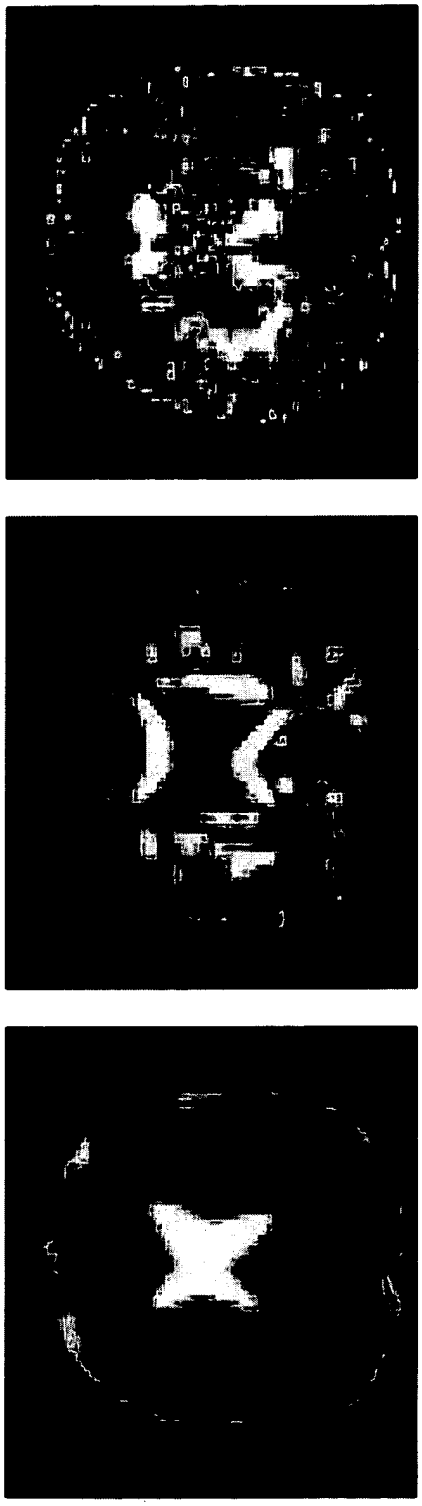

FIG. 12B

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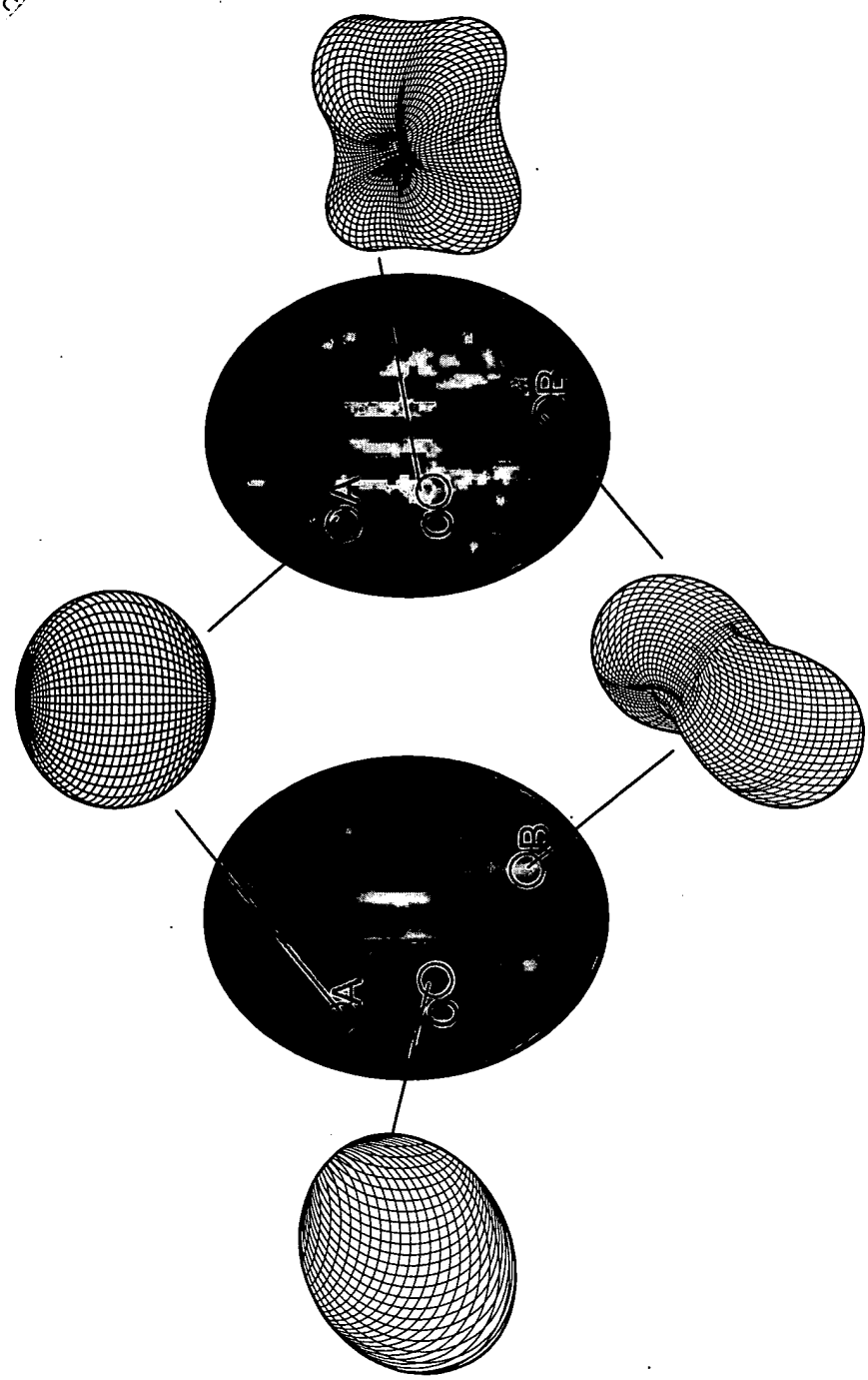

FIG. 13

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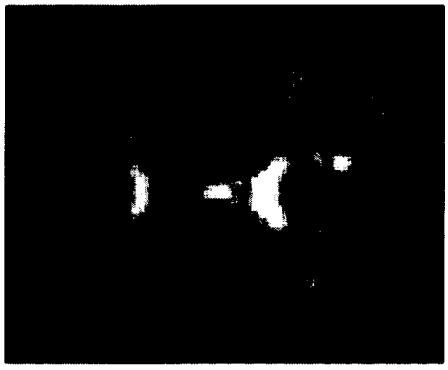
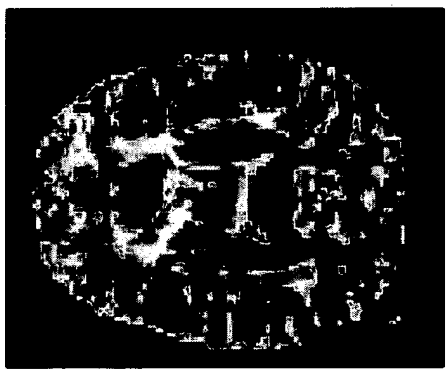


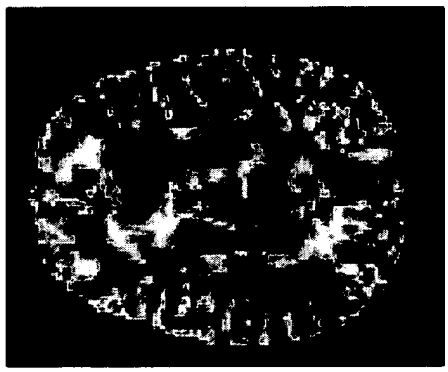
Magnitude of L=2 Channel

FIG. 14A



Estimate $\hat{\theta}$ of Polar Angle

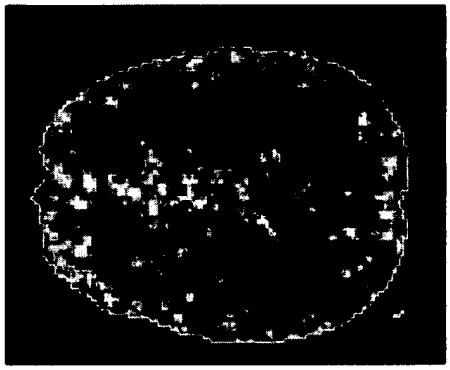
FIG. 14B



Estimate $\hat{\phi}$ of Azimuthal Angle

FIG. 14C

Even Orders > 0



Odd Orders

FIG. 15

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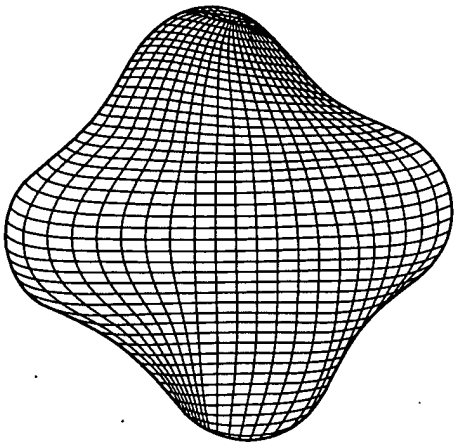

FIG. 16A

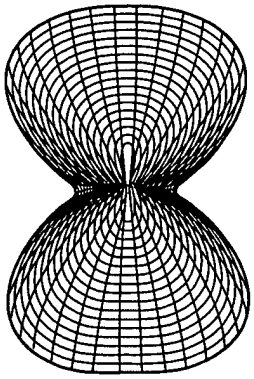

FIG. 16B

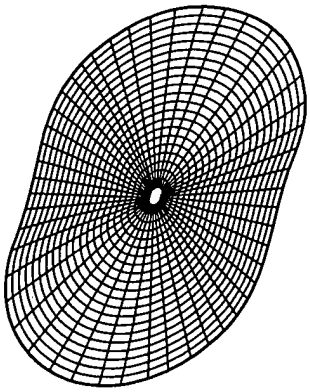

FIG. 16C

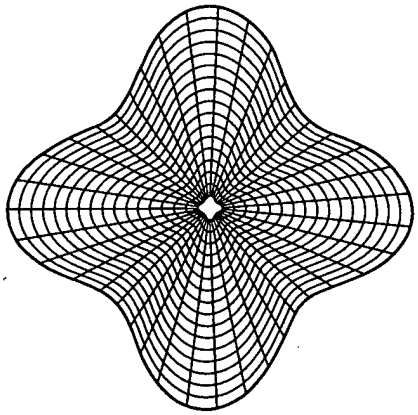

FIG. 16D

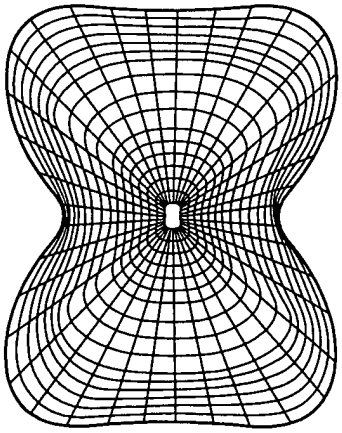

FIG. 16E

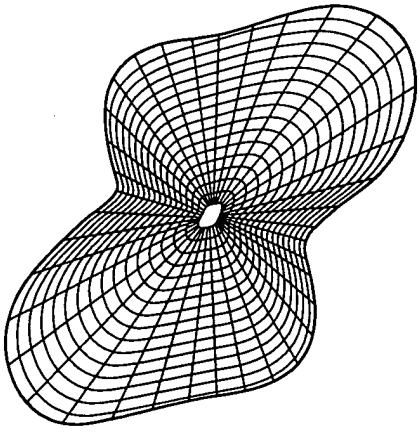

FIG. 16F

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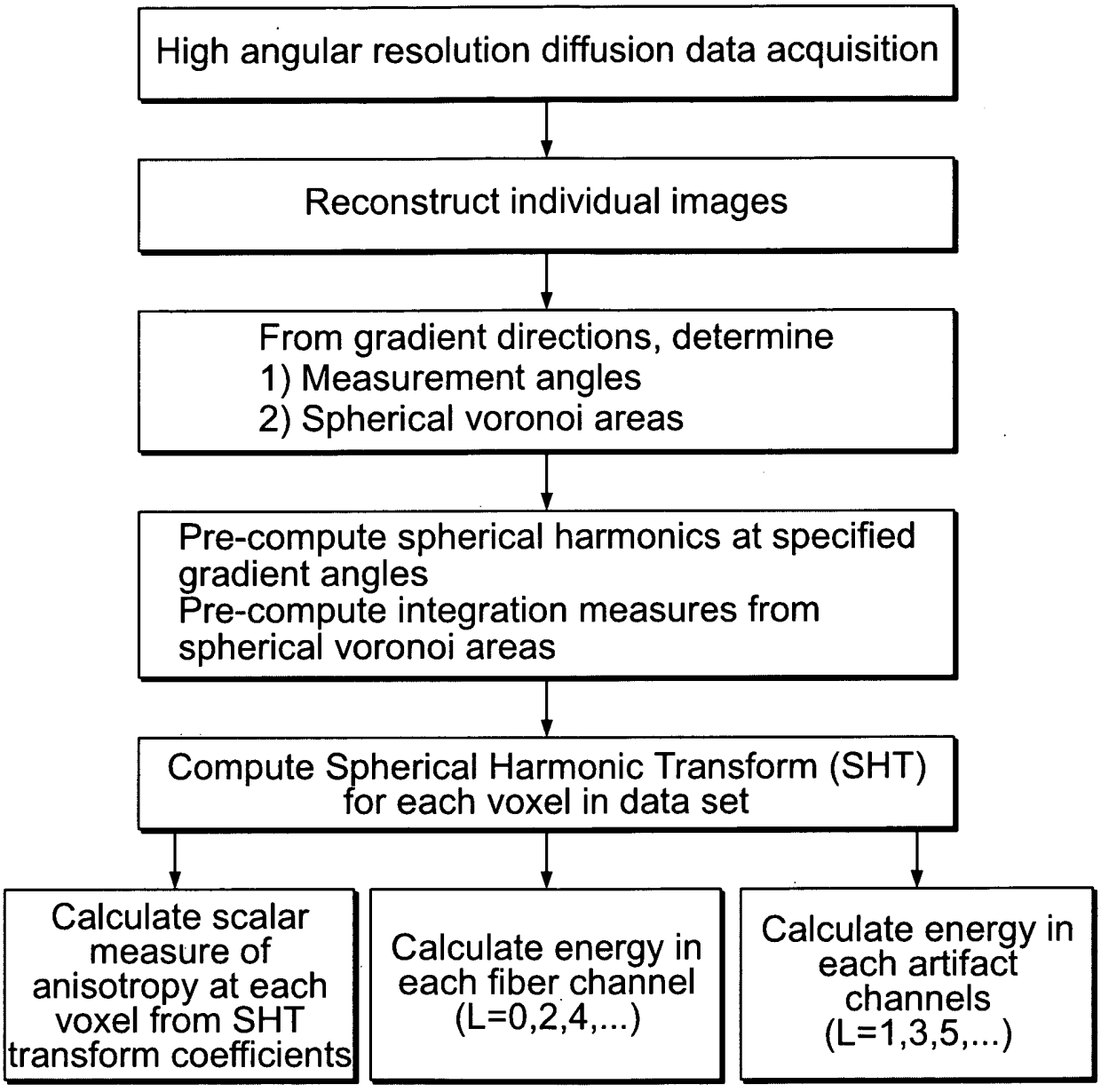
High angular resolution diffusion data acquisition
Reconstruct individual images
From gradient directions, determine
1) Measurement angles
2) Spherical voronoi areas
Pre-compute spherical harmonics at specified gradient angles
Pre-compute integration measures from spherical voronoi areas
Compute Spherical Harmonic Transform (SHT) for each voxel in data set
Calculate scalar measure of anisotropy at each voxel from SHT transform coefficients
Calculate energy in each fiber channel (L=0,2,4,...)
Calculate energy in each artifact channels (L=1,3,5,...)

FIG. 17

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